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20-07-'05 15:54 從- WINSTON HSU, NO. 41526 8064986673

T-512 P01/52 U-486



North America Intellectual Property Corporation

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Art Unit: 2622

From: Winston Hsu, Registration No. 41,526

Serial No.: 10/710,386

Attorney Docket No.: ACMP0117USA

Subject: Information Disclosure Statement (IDS)

Total Pages: 52 pages (including cover page)

Winston Hsu 2005/07/20

ACMP0117USA0_D1_1

PAGE 1/6 " RCVD AT 7/20/2005 3:49:48 AM [Eastern Daylight Time] " SVR:UCPTO-EFXRF-4/24 " DNIS:2738306 " CSID:8044963673 " DURATION (nam-es):04-42



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T-518 P01/52 U-489



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From: Winston Hsu, Registration No. 41,526

Serial No.: 10/710,386

Attorney Docket No.: ACMP0117USA

Subject: Information Disclosure Statement (IDS)

Total Pages: 52 pages (including cover page)

Winston Hsu 2005/07/20

ACMP0117USA0_D1_1

PAGE 1/3 * RCVD AT 7/20/2005 5:22:24 AM [Emitern Daylight Time] * 8VR:UEPTO-EFXRF-4/24 * DNIS:27/38/300 * CSID:2044983673 * DURATION (min-es):06-04



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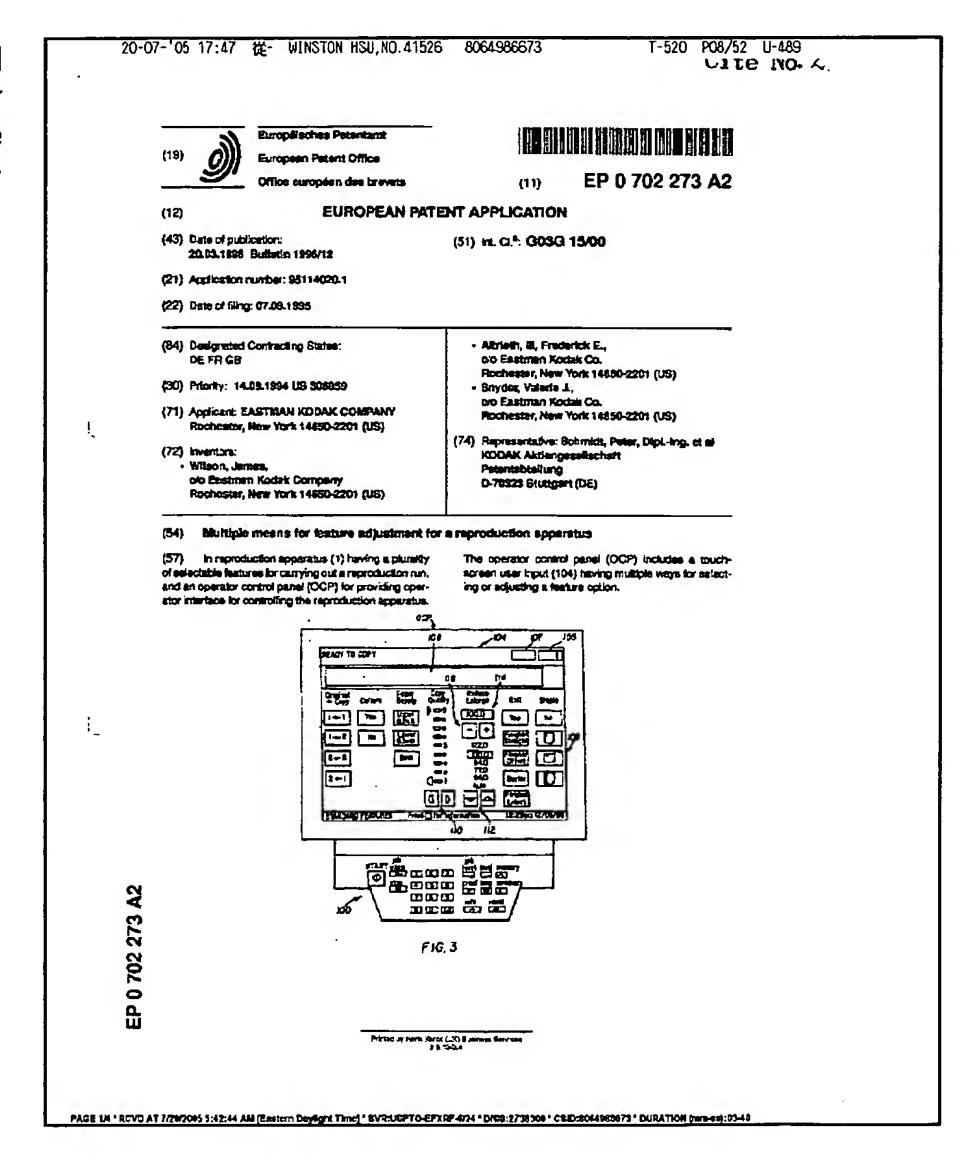
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20-07-105 18:55 後- WINSTON HSU, NO. 41526 8064986673 T-527 P01/52 U-494



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Art Unit: 2622

Ι..

From: Winston Hsu, Registration No. 41,526

Serial No.: 10/710,386

Attorney Docket No.: ACMP0117USA

Subject: Information Disclosure Statement (IDS)

Total Pages: 52 pages (including cover page)

Winston Hsu 2005/07/20

ACMP0117USA0_D1_1

PAGE 1/8 * RCVD AT 7/29/2005 6:50:50 AM [Eastern Daylight Time] * SVR:UEPT 6-EFXRF-6/25 * DAW: 2739:306 * CSED:20149630673 * DURATION (varues):07-02



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20-07-105 19:08 從- WINSTON HSU,NO.41526 8064986673

T-528 PO9/52 U-494

EP 0 702 273 A2

The present invention retails, in general, to reproduction apparatus, and relates, more specifically, to sleetragraphic reproduction apparatus having multiple \$ manns for feature selection or adjustment.

Electrographic reproduction apparatus are provided with an operator control panel for allowing an operator to program the appearatus for a reproduction run. In its simplest form, the control panel includes several dedicated 10 (hard) buttons and switches for selecting features for a reproduction run, as well as visual indicators for inform-Ing the operator which features were collected. The operstor control partel can also have a display for displaying tore for altering the display to indicate selected options. (See, for example, US-A-5,113,222.) The display may also include a touchecreen overlay having "soft buttons" for providing operator input to the reproduction apparatum. (See, for exemple, US-A-5,045,680; US-A- so offer all anid selectable teatures; 5.081,958; US-A-6,105,220; US-A-5,049,931; and US-A-5.010.551.)

A problem arises when all of the selections or adjustments for a particular facture cannot be displayed as touch areas within the optimal area range, in such a sr case, there is not enough room on the screen to display all selections (or adjustments) as touch buttons. Yet there is a need to maintain a consistent interface with the reproduction appearatus where the usor splects a feature by touching that feature's soft button. Although the fatter se peterns disclosing a touch screen user interlect include both soft button input and feature scrolling with scient owt printidings to established is no disclosure of combining the two types of user interface for alternate selection of the earner

According to the present invertion, there is provided a solution to the problems of the prior art by providing multiple means for selecting a feature in a touch screen user input to a reproduction apparatus.

According to a feeture of the present invention, there 40 is provided in a reproduction apparatus having a plurality of selectable features for carrying out a reproduction run, on coendor control panel for providing operator interface for controlling said reproduction apparatus comprising:

a display for displaying at least one selectable feeture for a reproduction run with plural displayed options for said at least one selectable feature;

a touchecreen overlaying said at least one selectable feature and having operator actuable touch areas overlaying said plural displayed options for providers: ing operator input in said reproduction apparatus to select one of said feature options; and

a earch touch button on said touchscreen for ecroling a visual indicator to highlight one of the feature options for said at least one selectable feature;

wherein a feature option of said at least one selectable feature can be selected either by touching said touch area essociated therewither by actuating said scroll button to select said feature option.

According to another feature of the present invention there is provided in a reproduction apparatus having a plurality of edeciable features for carrying out a reproduction run, an operator control panel for providing operteler interface for controlling said reproduction appearatus

a display for displaying all sest two selectable leatures for a reproduction run with plural displayed options for each of said at least two aelectable features;

a louchsomen overlaying at least said two selectable features and having operator actuable touch areas overtaying said plural displayed options for each said at least two salectable features for providing operafor input to said reproduction apparatus to select one or mossages. The control panel also includes keys and but- 12 19918 feature options, wherein said touch areas are pubstandally larger for one of said selectable features then for the other of said selectable features; and

it scroft button on said touchecreen for scrolling an indicator to identify one of the feature options for said

wherein a festure option of said one selectable feature is selected only by touching said touch area assodiated therewith; and

wherein a teature option of said other selectable feature can be existed either by touching said touch area accordated therewith or by actuating said coroll button to colect said feature option.

Figure 1 is a front perspective view of an electrographic reproduction apparatus for incorporating the present invention.

Figure 2 is a schematic diagram of the electrographic reproduction apparatus of Figure 1.

Figure 3 is a diagrammatic view of an operator control panel, including a display with a touchscreen.

Figures 4-7 are respective screams useful in explaining the present invention.

Because electrographic reproduction appearatus t are well-known, the present description will be directed. in persoular, to elements forming part of or cooperating more directly with the present invention. Apparatus not specifically shown or described herein are selectable from those known in the prior art. Perfoular reference is made to US-A-4,740,616 and US-A-5,113,222, the contents of which are incorporated herein by reference.

With reference now to Figure 1, there is shown an electrographic reproduction apparatus 1 having a rackculating document feeder 30 that includes a tray portion for accepting a multi-sheet document original for reproduction. The appearants 1 includes an operator control penel (OCP) which, as will be described, includes buttons and prompting displays for facilitating a job setup. that is, the input of an instruction set to the apparatus logic and control unit (LCU) to enable it to control a series of operations resulting in a desired copy output repreearding a reproduction of the document originals. Copies. may be produced on receiver sheets stored in either or both drawers holding trays 23s and 25b. The copy output from the apparatus is stored either in an exit tray (ET) or

PAGE 1/2 * RCVD AT 7/29/2005 7:93:58 AM [Eastern Daylight Time] * 6VR:UGPTO-EFX6F-4/25 * D408:27/38/300 * CGID:8064080675 * DURATION (nam-es):04-44



TO: Fax Sender at 8064986673

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20-07-*05 19:17 從- WENSTON HSU,NO.41526

T-529 P10/52 U-494

EP 0 702 273 A2

finisher/sorter (F/S) having a series of sorter bins, as a

Referring now to Figure 2, the electrographic reproduction apparatus of Figure 1 incorporating the present invention will be described in greater detail. As shown, s reproduction apparatus 7 includes a photoconductive web 5 that is trained about ab: transport rollers 10, 11, 12, 13, 14 and 15, theraby torming an endless or continyous web. Roter 10 is coupled to a drive motor M in a conventional manner. Motor M is connected to a source 10 of potential V when a switch SW is closed by a logic and control unit (LCU) 31. When the particle SW is closed, the roller 10 is driven by the motor M and moves the web 5 In clockwise direction as indicated by arrow A. Thismovement causes successive image areas of web 5 to sequentially pass a series of work stations of the apperatus 1. These workstations include: a charging station 17,17a at which the photoconductive surface 9 of the web 5 is earishized by applying to such surface a uniform exposure station 18 at which a light Image of a document sheet S, supported on transparent platen 2, is projected by mirrors 6, 6 and lane 7 onto the photoconductive surface 9 of the web 5 to produce a latent electrostatic image of the document sheet. Also included are a magnetic. et brush development station 19 at which the latent image is developed with developer which may consist of iron Carrier particles and electroscopic toner particles with an shown are original only collect managements only must.

PAGE 1/1* RCVD AT 7/20/2009 7:12:58 AM [Eastern Daylight Time] * SVICUSPTO-EFXRY-6/24 * DNES:2738380 * CSID:2064838673 * DURATION (mm-cs):02-64

able "soft" buttons and areas for providing operator input to the reproduction appearatus. Touchscreens are well known and include resistive, acquetic, and infrared type irput technologise.

The operator selectable set of hard buttors; on the left include, START, JOB INTERRUPT, and STOP buttons. In the middle are numerical buttons 0-9 to set the number of copies or sets to be copied. A * and CE (clear entry) buttons are also included. On the right are the following hard buttons; JOB LEVEL, PAGE LEVEL, MEM-PROOF, LANGUAGE, SUMMARY, INFORMATION and RESET. The INFORMATION (I) button accesses an information system (stored in memory in LCU 31) which provides detailed information about 35 reproduction apperatus 1 including features selectable by the operator and messages which are displayed on fourtherreen display 104.

As shown in Figure 3, the screen illustrated on the touchscreen display is referred to as the "standard feaelectrostatic change of a predetermined voltage; an so sines screen as it displays various features that a passed user of the apparatus 1 would want when first approaching the apparatus for an average reproduction run. The screen includes a message display area 106, a copies or sets requested display area 105, a copies or sets complated display area 107, and a "soft" button area 108. The "soft" button area includes selectable features with plural displayed options for each feature. The features

USPTO 7/21/2005 10:16 PM PAGE 1/001 Fax Server TO:Auto-reply fax to 8064986673 COMPANY:

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T-589 P01/52 U-542



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From: Winston Hsu, Registration No. 41,526

Serial No.: 10/710,386

Attorney Docket No.: ACMP0117USA

Subject: Information Disclosure Statement (IDS)

Total Pages: 52 pages (including cover page)

Winston Hsu 07/21/2005

RESUBMIT

Information Disclosure Statement (IDS)

Dear Sir,

The applicant submitted this Information Disclosure Statement on 07/20/2005 in US eastern time 15:52-18:54 PM. However, the document was Incomplete, the applicant hereby submits the Information Disclosure Statement again. Please Ignore the previous submission, and take the current submission as substitute.

ACMP0117USA0_D1_1

PAGE 1/3 * RCVD AT 7/21/2005 10:00:52 PM [Eastern DaySight Time] * BVR:USPTO-EFXRF-6/24 * DNIS:2738300 * CSID:8064986673 * DURATION (mm-as):05-56



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Date Received: 7/21/2005 10:19:52 PM [Eastern Daylight Time]

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22-07-105 10:36 從- WINSTON HSU,NO.41526 8064986673

T-591 P09/52 U-542

EP 0 702 273 A2

Description

The present invention relates, in general, to reproduction apparatus, and relates, more specifically, to electrographic reproduction apparatus having stuitiple # means for feature selection or adjustment.

Efectrographic reproduction apparatus are provided with an operator control penel for allowing an operator to program the apparatus for a reproduction run. In its simplest form, the control panel includes several dedicated 15 (hard) buttons and switches for selecting features for a reproduction run, as well as visual inclosions for Informing the operator which features were selected. The operstor control panel can also have a display for displaying tone for aftering the display to indicate selected options. (See, for example, US-A-5,113,222.) The display may also include a touchsprean overlay having "soit buttons" for providing operator input to the reproduction apperatus. (See, for example, US-A-5,045,680; US-A- 20 Other of said selectable features; 5,061,958; U8-A-5,105,220; U6-A-5,049,631; and U9-A-5.010.551.3

A problem arises when all of the selections or adjustments for a perticular feature connect be displayed as touch erass within the optimel area range. In such a secase, there is not enough room on the screen to display all epiechons (or adjustments) as touch buttons. Yet there is a need to resintatin a consistent interface with the reproduction appearatus where the uper selects a feature by touching that feature's soft button. Although the latter or patients disclosing a touch screen user interface include both soft button input and feature scrolling with select button input, there is no disclosure of combining the two types of user interface for alternate selection of the same

According to the present invention, there is provided a solution to the problems of the prior art by providing multiple means for selecting a feature in a touch ecreen were input to a reproduction appearable.

According to a feature of the present Invention, there 49 is provided in a reproduction apparatus having a plurality. of selectable features for carrying out a reproduction run. an operator control panel for providing operator intertace for controlling said reproduction apparatus comprising:

e display for displaying at least one selectable fee- 49 ture for a reproduction run with plural displayed options for said at least one selectable feature.

a four-harreen overlaying said at least one spiectable feature and having operator actuable touch eress overtaying said plural displayed options for providing operator input to said reproduction apparatus to selections of said feature options; and

a scroll touch button on said touchecreen for scrolling a visual indicator to highlight one of the feature options for said at least one selectable feature;

wherein a feature option of said at least one adjectable feature can be selected either by touching said touch area associated therewith or by actuating said soral button to select said feature option.

According to another feature of the present invention there is provided in a reproduction apparatus having a plurality of selectable features for carrying out a reproduttion run, an operator cortrol panel for providing operattor interface for controlling said reproduction apparetus

Edisplay for displaying at least two selectable leatures for a reproduction run with plural displayed options for each of said at least two selectable features;

a touchscreen overlaying at least said two selectable features and having operator actuable touch erees overtaying said plural displayed options for each axid at least two selectable features for providing operafor input to said reproduction apparatus to saidd one or messages. The control puriet was instudes keys and but- is infore feature options, wherein said touch eress are substantially larger for one of said selectable features then for the other of said selectable features; and

a soroll button on said touchscreen for sorolling an indicator to identify one of the feature options for said

wherein a feature option of said one edectable feature is selected only by touching said touch eren associsted therewith; and

wherein a feature option of said other selectable fleature can be selected either by touching said touch area associated therewith or by actualing said acroil button to select said feature option.

Figure 1 is a front perspective view of an electrographic reproduction apparatus for incorporating the present invention.

Figure 2 is a uchamatic diagram of the electrographic reproduction apparatus of Figure 1.

Figure 3 is a diagrammatic view of an operator control panel, including a display with a touchacreen.

Figures 4-7 are respective acresne useful in explaining the present invention.

Because electrographic reproduction apparatus 1 are wall-known, the present description will be directed, in particular, to elements forming part of or cooperating more directly with the present invention. Apparatus not specifically shown or described herein are selectable from those known in the prior art. Particular reference is made to US-A-4,740,818 and US-A-5,113,222, the contents of which are incorporated herein by reference.

With reference now to Figure 1, there is shown an electrographic reproduction apparatus 1 having a recircutating document feeder 50 that includes a tray portion for accepting a multi-sheat document original for reproduction. The apparatus 1 includes an operator control panel (OCP) which, as will be described, includes buttons and prompting displays for facilitating a job soup, that is, the incut of an instruction set to the acceptus logic and control unil (LCU) to enable it to control a series of operations resulting in a desired copy output representing a reproduction of the document originals. Copies may be produced on receiver sheets stored in either or both drawers holding trays 23a and 23b. The copy output from the apparatus is stored either in an exit tray (ET) or

PAGE 1/1 * RCVD AT 7/21/2005 10:32:32 PM (Ea stern Daylight Time) * BVR:UEPTO-EFXRF-6/24 * DASB:27/3500 * CSID:8964986673 * DURATION (mm-es):01-56



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T-592 P01/52 U-543



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Art Unit: 2622

Tel.: (571) 272-1714

Fax: (703) 872-9306

From: Winston Hsu, Registration No. 41,526

Serial No.: 10/710,386

Attorney Docket No.: ACMP0117USA

Subject: Information Disclosure Statement (IDS)

Total Pages: 52 pages (including cover page)

Winston Hsu 07/21/2005

RESUBMIT

Information Disclosure Statement (IDS)

Dear Sir,

The applicant submitted this information Disclosure Statement on 07/20/2005 in US eastern time 03:52-06:54 AM and 07/21/2005 in US eastern time 22:12 PM by fax number 571-273-8300. However, the document was incomplete, the applicant hereby submits the Information Disclosure Statement again by fax number 703-872-9306. Please Ignore the previous submission, and take the current submission as substitute.

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檔案號碼 :

日期 : 22.07 10:55

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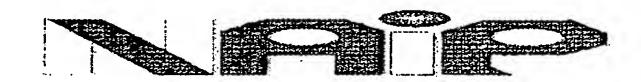
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Art Unit: 2622 Fax: (703) 872-9306

From: Winston Hsu, Registration No. 41,526

Serial No.: 10/710,386

Attorney Docket No.: ACMP0117USA

Subject: Information Disclosure Statement (IDS)

Total Pages: 52 pages (including cover page)

Winston Hsu 07/21/2005

RESUBMIT

Information Disclosure Statement (IDS)

Dear Sir,

The applicant submitted this Information Disclosure Statement on 07/20/2005 in US eastern time 03:52-06:54 AM and 07/21/2005 in US eastern time 22:12 PM by fax number 571-273-8300. However, the document was incomplete, the applicant hereby submits the Information Disclosure Statement again by fax number 703-872-9306. Please Ignore the previous submission, and take the current submission as substitute.

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日期 : 20.07 15:52

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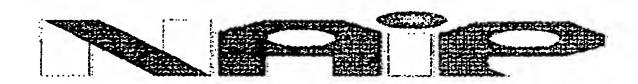
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Attorney Docket No.: ACMPORTAUSA

Subject: Information Disclosure Statement (IDS)

Total Pages: 52 pages (including cover page)

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名稱:WINSTON HSU, NO. 41526

檔案號碼 : 487

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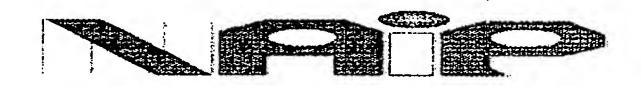
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檔案號碼 489

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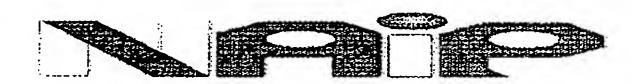
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Serial No.: 10/710,386

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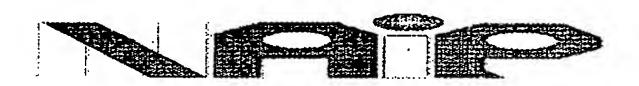
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時間 :22-07-'05 10:38

電話號碼1 :8064986673

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檔案號碼 : 542

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原稿頁數 : 52

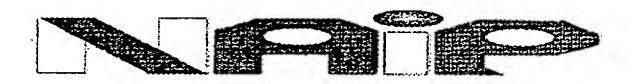
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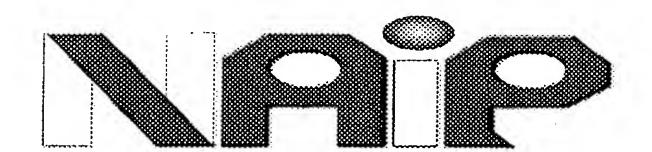
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Applicant claims small ontity		Examiner Name	COLE					
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METHOD OF PAYMENT (ch	eck all that apply)							
Check Credit Card	Money Order		ne Other (please	e identify):				
Deposit Account Deposit	Account Number: 50-310	05	Deposit Accour	nt Name: Nort	h America Intell	ectual Prope	erty Corp.	
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Charge fee(s) indica	ated below		Charge fee	e(s) indicated	below, except	for the filir	ng fee	
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WARNING: Information on this form	may become public. Credit	card in	formation should not be			e credit card	ı	
information and authorization on PT	O-2038.							
FEE CALCULATION								
1. BASIC FILING, SEARCH, FIL	AND EXAMINATION F LING FEES		RCH FEES EX	(AMINATIO	N FEES			
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2. EXCESS CLAIM FEES		_	~		·		nall Entity	
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Multiple dependent claims	01, 22, 22, 22, 2 ,	****** A			- 10· F	360	180	
	Claims Fee (\$)				dent Claims	- 1		
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3. APPLICATION SIZE FEE			4b- amplication (-i foo duo	:-	f far amall		
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4. OTHER FEE(S)						Fees F	Paid (\$)	
Non-English Specification	•	_	discount)			2.00		
Other: submission of Informa	Ition Disclosure Statement	<u>t</u>				0.00		
SUBMITTED BY								
Signature (VC	unon to be us		Registration No. 41,	526	Telephone 3	02-729-1	562	
Name (Print/Type) Winston H	İsu				Date ()7/2	1/2005		

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.





IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Mei-Tai Chou et al.

Appl. No.: 10/710,386 Filing Date: 07/06/2004

Examiner: COLES, EDWARD L Art Unit: 2622

Docket No.: ACMP0117USA

Title: IMAGE-PROCESSING APPARATUS HAVING A LOCK BUTTON

To: Commissioner for Patents

P.O. BOX 1450

Alexandria, VA 22313-1450

Subject: Information disclosure statement under 37 CFR §1.56

Dear Sir,

This is an Information Disclosure Statement in accordance with the duty to disclose information material to patentability under 37 CFR §1.56. The applicant wishes to make of record the document(s) listed on the accompanying form PTO/SB/08.

Since this IDS is filed before the mailing date of the first Office action, consideration of the information disclosure statement is hereby requested according to 37 CFR \$1.97(b).

That each item of information contained in the information disclosure statement was first cited in an Office communication mailed on <u>June 15, 2005</u> for the counterpart German patent application number 102004033857.4, which are

no more than three months prior to the filing of the information disclosure statement.

According to the requirement set forth in 37 CFR \$1.98, the applicant is submitting a copy of the cited Japanese patent JP 63-121867 and its English language abstract to fulfill the concise explanation requirement.

It is respectfully requested that the examiner can consider the document(s) listed on the accompanying form PTO/SB/08 and that it be made of record in the application. The applicants sincerely hope that the examiner initials the cited reference(s) on the form and that a copy of the initialed form be sent to the applicants with the next communication from the examiner.

Respectfully submitted,

Wententan

Date: July 21, 2005

Winston Hsu, Patent Agent No. 41,526

P.O. BOX 506, Merrifield, VA 22116, U.S.A.

Voice Mail: 302-729-1562

Facsimile: 806-498-6673

e-mail: winstonhsu@naipo.com

Note: Please leave a message in my voice mail if you need to talk to me. The time in D.C. is 12 hours behind the Taiwan time, i.e. 9 AM in D.C. = 9 PM in Taiwan.